

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-5. Canceled

6. (Currently Amended) A gas turbine comprising a compressor for compressing air, a combustor for mixing air compressed by said compressor with fuel and burning them, and a turbine ~~to be~~ driven by combustion gas burned by said combustor;

said gas turbine further comprising;

a cooling air system for supplying part of said air compressed by said compressor to ~~the~~ a high temperature section of said turbine;

~~a heater~~ heat exchanger for exchanging heat of said part of air compressed by said compressor to cool said part of said compressed air, said heat exchanger being installed on said cooling air system; and

a bypass system for bypassing said ~~heater exchanger~~ heat exchanger, said bypass system being installed on said cooling air system and provided with a means for adjusting a flow rate

of a portion of said part of said compressed air passing through said bypass system.

7. (Withdrawn) A high temperature section cooling method of a gas turbine comprising a compressor for compressing air, a combustor for mixing air compressed by said compressor with fuel and burning them, and a turbine to be driven by combustion gas burned by said combustor;

said high temperature section cooling method comprising the steps of:

cooling part of air compressed by said compressor by said heat exchanger and supplying it to the high temperature section of said turbine, and

adjusting said air temperature at a desired time during the operation of said turbine in order to avoid overheating of air on the downstream side of said heater exchanger.

8. (Currently Amended) A high temperature section cooling method of a gas turbine comprising a compressor for compressing air, a combustor for mixing air compressed by said compressor with fuel and burning them, and a turbine ~~to be~~ driven by combustion gas burned by said combustor;

said gas turbine further comprising:

a cooling air system for cooling part of said air compressed by said compressor and sending it to the high

temperature section of said turbine, and

a heat exchanger installed on said cooling air system, and
a bypass system for bypassing said ~~heater~~ heat exchanger;
said high temperature section cooling method further
characterized by comprising a step of:

~~sending~~ causing at least a portion of said part of said
air compressed by said compressor and flowing in said cooling
air system to bypass said heat exchanger through ~~to~~ said
bypass system at a desired time during the operation of said
turbine, and adjusting said air temperature to adjust the
temperature of said part of said air compressed by said
compressor and flowing in said cooling air system on a
downstream side of said heat exchanger in order to avoid
overheating of said part of said air compressed by said
compressor on the downstream side of said ~~heater~~ heat
exchanger.